*Int. J. Pres. Ves. & Piping* **41** (1990) 383–384

# CONTENTS OF VOLUME 41

*Number 1*

The Successful Elimination of Vibration in a Hydrogen Compressor Pipe System 1
ZHI-XI XIA & AN-PING PAN (People's Republic of China)

Fracture Analysis for Pipes Containing Full Circumference Internal Part-Throughwall Flaw . . . . . 11
MOHAMMAD D. RAJAB & AKRAM ZAHOOR (USA)

A Comparative Study of the Probabilistic Fracture Mechanics and the Stochastic Markovian Process Approaches for Structural Reliability Assessment . . 25
G. STAVRAKAKIS, A. C. LUCIA & G. SOLOMOS (Italy)

Scaling of *J–R* Curves for Side Grooved Pieces . . . . . 43
C. E. TURNER & M. R. ETEMAD (UK)

Temperature Dependence of Fracture Toughness (*J–R*-Curves) of a Modified Type 316L Austenitic Stainless Steel . . . . . 59
K. G. SAMUEL, O. GOSSMANN & H. HUTHMANN (FRG)

Fracture Behaviour Simulation of Flawed Full Scale Pressure Vessel . . . 75
ARJA SAARENHEIMO, HELI TALJA, KARI IKONEN, RAUNO RINTAMAA, HEIKKI KEINÄNEN & KARI TÖRRÖNEN (Finland)

Stress Intensity Factor Equations for Single and Multiple Cracked Pressurized Thick-Walled Cylinders . . . . . 103
K. J. KIRKHOPE, R. BELL & J. KIRKHOPE (Canada)

Creep Evaluation of Metallic Materials by Ultrasonic and Metallurgical Parameters . . . . . 113
R. MARTINEZ-OÑA, A. NAVARRO, J. BAÑES, MA. C. PÉREZ, J. MA. BORREGÁN & M. GUTIÉRREZ (Spain)

Announcements . . . . . 123

*Number 2*

Measurement Errors Resulting from the Strain Gauge Integration Effect . . 127
M. GAFITANU, P. D. BARSANESCU & V. F. POTERASU (Romania)



*Int. J. Pres. Ves. & Piping* (**41**) (1990)—© 1990 Elsevier Science Publishers Ltd, England. Printed in Great Britain

The Fatigue Growth of Inclined Surface Cracks Under Biaxial Loading . . 141
SHAN-TUNG TU & SHU-HO DAI (People's Republic of China)

The Stress and Flexibility Analysis of Thin-Walled Curved Pipes Under Out-of-Plane Bending with the Semi-membrane Ring Element . . . . . 159
F. J. M. Q. DE MELO & P. M. S. T. DE CASTRO (Portugal)

Study on Anisotropic Yield Criterion of Titanium Pressure Vessel Material . 169
LIU DONGXING, LI GANGLING & ZENG XIAOYING
(People's Republic of China)

Investigation of Fatigue Crack Growth Under Constant Amplitude Loading . 179
RAGHUVIR KUMAR & A. K. PANDEY (India)

Experimental Investigation of a Cracked Body with Adhesive Bonded Reinforcement 193
YI-QIANG HU, PEI-NING LI, DING-YI JU &
HONG-LIANG PAN (People's Republic of China)

Static Testing of U-Shaped Formed Metal Bellows . . . . . 207
WILLIAM P. SCHONBERG, PHILLIP A. BEASLEY,
GERALD R. GUINN & ALAN J. BEAN (USA)

Thermal Elastic and Elasto-plastic Analysis of the Supporting Cone Shell of a Waste Heat Boiler . . . . . 227
RUIYING CAI & DEKE XIE (People's Republic of China)

Seminar Report . . . . . 245

Announcements . . . . . 249

*Number 3*

The Significance of Prior Overload on Fracture Resistance: A Critical Review . 255
D. J. SMITH & S. J. GARWOOD (UK)

Experimental Study of Effects of Prior Overload on Fracture Toughness of A533B Steel . . . . . 297
D. J. SMITH & S. J. GARWOOD (UK)

Application of Theoretical Methods to Predict Overload Effects on Fracture Toughness of A533B . . . . . 333
D. J. SMITH & S. J. GARWOOD (UK)

Toroidal Elasticity Stress States for an End Shear Force Acting on an Elbow . 359
H. A. LANG (USA)

Announcements . . . . . 377